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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,367 09/30/2003		Liang Jiang	132347-1	5979
23413 CANTOR COL	7590 12/20/200 JBURN, LLP	EXAMINER		
55 GRIFFIN R	OAD SOUTH		ROE, JESSEE RANDALL	
BLOOMFIELD	, C1 00002		ART UNIT	PAPER NUMBER
			1742	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/20/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)	
Office Action Summary		10/675,367	JIANG ET AL.	
		Examiner	Art Unit	
		Jessee Roe	1742	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communi D (35 U.S.C. § 133).	
Status				
2a) <u></u>	Responsive to communication(s) filed on <u>20 Oc</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar	action is non-final.	osecution as to the meri	its is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Dispositi	ion of Claims	•		
5)□ 6)⊠ 7)□	Claim(s) 1.2 and 4-21 is/are pending in the app 4a) Of the above claim(s) 11-18,20 and 21 is/are Claim(s) is/are allowed. Claim(s) 1-2 and 4-10 and 19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	re withdrawn from consideration.		
Applicati	ion Papers	,		
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.1	
Priority u	ınder 35 U.S.C. § 119			
12)[_] a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on Noed in this National Stage	.
2) 🔲 Notic 3) 🔲 Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

Claims Status

Claims 1-2, 4-10 and 19 remain for examination wherein claim 1 is amended, claim 3 is canceled, and claims 11-18 and 20-21 are withdrawn from consideration.

Status of Previous Rejections

The previous rejections of claim 1-7 and 19 under 35 U.S.C 102(b) as being anticipated by Budinger (US 5,240,491) and claims 8-10 under 35 U.S.C. 103(a) as being unpatentable over Budinger (US 5,240,491) are withdrawn in view of the Applicant's amendments to the claims.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 20 October 2006 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-10 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Shaw (US 4,039,330).

Shaw ('330) discloses (Table 1) a nickel-containing alloy comprising a composition as shown in the table below:

Element	From Instant Claims (in wt%)	Alloy 2 of Shaw ('330) (in wt%)	Alloy 2 of Shaw ('330) (in at%)
С	about 0.02 to about 0.15	0.15	0.707
Cr	about 14 to about 28	22.6	24.608
Со	about 10 to about 23	10	9.607
W	about 1 to about 3	2.40	0.739
Nb	up to about 3	0.85	0.518
Та	Not essential	1.45	0.453
Ti	about 1.50 to about 4.50	3.50	4.139
Al	about 1.50 to about 4.50	2.02	4.239
Zr	about 0.01 to about 0.20	0.20	0.124
В	about 0.001 to about 0.025	0.011	0.058
Ni	Remainder	56.819	54.808

In regards to claim 1, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The essential weight percentages of aluminum, titanium, niobium, chromium, and zirconium are present. The weight percentages were converted to atomic percentages and are shown in column above. The atomic ratio of aluminum to titanium is 1.024, which would be within the range of about 0.5 to about 1.5.

In regards to claim 2, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The combined weight percentage of titanium and aluminum would be 5.52, which would be within the range of about 3 to about 9 weight percent.

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In regards to claim 4, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The combined weight percentage of titanium, aluminum, and niobium would be 6.37, which would be within the range of about 3 to about 12 weight percent.

In regards to claim 5, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The weight percent of nickel is 56.819 weight percent, which would be within the range of about 40 to about 70 weight percent.

In regards to claim 6, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. Cobalt, carbon, zirconium, tungsten, boron and tantalum are present.

In regards to claim 7, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The weight percent of cobalt is 10 weight percent, which would be within the range of about 10 to about 23 weight percent.

In regards to claim 8, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The weight percent of carbon is 0.15 weight percent, which would be within the range of about 0.02 to about 0.15 weight percent.

In regards to claim 9, Shaw ('330) discloses (Alloy 2 of Table 1) a nickel-containing alloy with a composition as shown above. The weight percent of tungsten is 2.40 weight percent, which would be within the range of about 1 to about 3 weight

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percent.

In regards to claim 10, Shaw ('330) discloses (Alloy 2 of Table 1) a nickelcontaining alloy with a composition as shown above. The weight percent of boron is 0.011 weight percent, which would be within the range of about 0.001 to about 0.025 weight percent.

In regards to claim 19, Shaw ('330) discloses (col. 7, lines 10-37) that the nickelcontaining alloy would be used for turbine components such as rotor or stator blades.

Response to Arguments

Applicant's arguments with respect to claim 1-2, 4-10 and 19 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessee Roe whose telephone number is (571) 272-5938. The examiner can normally be reached on Monday-Friday 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JR

ROY KING
SUPERVISORY PATENT EXAMINER

TECHNICLOGY CENTER 1700